

## Patent Abstracts of Japan

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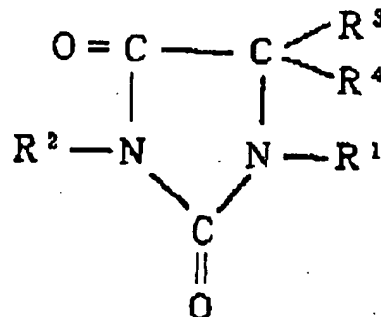
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C02F 1/50 C02F 1/50

TITLE : METHOD FOR PREVENTING SLIME  
PROBLEM FROM OCCURRING IN  
PULP FACTORY AND PAPERMAKING  
FACTORY



ABSTRACT : PURPOSE: To prevent lowering of paper quality due to stains and spots and troubles due to slime such as malodor by adding a hydantoin-based compound to a process water to kill bacteria constituting slime or inhibit growth of bacteria.

CONSTITUTION: A hydantoin-based compound represented by the formula (at least either one of  $R^1$  and  $R^2$  is Cl or Br and the other is H, Cl or Br, preferably either one is Cl and the other is Br;  $R^3$  and  $R^4$  are each H or a 1-12C alkyl, preferably each methyl) in an amount of 0.1-100 ppm, preferably 0.5-50 ppm, more preferably 1-20 ppm is added to a process water such as white water in pulp factory or papermaking factory, especially, alkali paper-based white water to effectively carry out killing or growth inhibition of bacteria constituting slime even if pH of the process water is present on acidic side of 4-6 or in high pH region of 6-8.

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